



# THEIR NUMBERS, THEIR STORIES: WOMEN IN MATH

*Zebo Egamberganova*

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# Outline

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# Introduction

- The achievements of men have long dominated the conversation in mathematics, creating a significant disparity. Despite progress, women are still underrepresented in mathematics today. The film "Hidden Figures" underscores the delayed recognition of the critical contributions by African American women in the 1960s USpace race.
- This presentation explores the historical and ongoing challenges and achievements of women in mathematics and the opportunities now open to them.

## *2. History of Women in Mathematics*



# History: famous women in math



## Hypatia of Alexandria

(c. 350-370 AD – 415 AD)

was (probably) the first woman mathematician, as well as a Greek philosopher and astronomer; recognized for her commentaries on prominent mathematical works of her time.



## Sofya Kovalevskaya

(15.01.1850 – 10.02.1891)

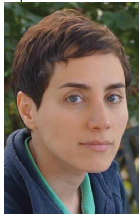
was a Russian mathematician, the first woman to earn a doctorate in mathematics (in the modern sense), the first female full professor in Northern Europe and among the first women to edit a scientific journal.



## Emmy Noether

(23.03.1882 – 14.04.1935)

was a German mathematician, known for her contributions to abstract algebra (specifically ring theory) and Noether's theorem (both first and second) in mathematical physics.



## Maryam Mirzakhani

(12.05.1977 – 14.07.2017)

was an Iranian mathematician, the first female Fields medalist, and made significant contributions to moduli spaces, Teichmüller theory, hyperbolic geometry, ergodic theory, and symplectic geometry.

### *3. Advancing Women in Mathematics*

# Opportunities for Women in Mathematics

- **Abel Visiting Scholar Program**
- **Association for Women in Mathematics**
- **London Mathematical Society**
- **L'Oreal-UNESCO For Women in Science**



# Increase of Women in Math and Science Careers

- Careers in mathematics are expected to grow by 26% from 2018 to 2028, significantly faster than the average for all occupations. The median annual pay in 2019 for math-related jobs was \$90,410. These trends highlight the growing opportunities and need for talented mathematicians, especially women, in the future.

## 4. *Doing Math as a Uzbek Woman*

# Uzbek Women in Science: Advancing Globally, Bridging Locally

- Uzbekistan sees how important it is for women to participate in science and innovation.
- We need to help women all over the world get into science to make education and science equal for everyone.
- Educating women is super important because they help teach the next generation, making our country better.
- There are many women in Uzbekistan, which shows how important their role is in making society better.
- Even though we are making progress, there still are not enough women in science, so we need to do more to make it equal.

Thanks for your attention!